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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,592	04/08/2004	Dustin L. Winters	87448RLO	8153

7590 03/24/2006

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EXAMINER

WON, BUMSUK

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/820,592

Applicant(s)

WINTERS, DUSTIN L.

Examiner

Bumsuk Won

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The amendment filed on 1/9/2006 has been entered.

Drawings

The drawings were received on 1/9/2006. These drawings are acceptable.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Boroson (US 2005/0005232).

Regarding claim 1, Boroson discloses an OLED device (figure 7), comprising: a light emitting layer (210) arranged to produce light in a predetermined emitting area; a reflector (220) and a semi-transparent reflector (120a-120d) forming microcavity structure (paragraph 32) for resonating the light produced in the light emitting layer to provide red, green, or blue light (paragraph 112); and a color filter element (301a-301c) disposed relative to a first portion (the portion where the filters are placed) of the predetermined emitting area so as to filter the red, green or blue light and transmit substantially unfiltered red, green or blue light through a second portion (the portion where the filters are not placed) of the predetermined emitting area.

Regarding claim 2, Boroson discloses the reflector and the semi-transparent reflector serve as electrodes for light emitting layer (paragraph 33).

Regarding claim 3, Boroson discloses the semi-transparent reflector is Ag or an Ag alloy (paragraph 31).

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Regarding claim 4, Boroson discloses the device is top emitting (figure 5).

Regarding claim 5, Boroson discloses the device is bottom emitting (figure 7).

Regarding claim 6, Boroson discloses the color filter elements (figure 7, 301a-301c) include striped filtered portions (figure 7, into the page).

Regarding claim 7, Boroson discloses the color filter element (figure 7, 301a-301c) includes openings (two openings between 301a and 301b, and 301b and 301c) in the color filter element to provide the unfiltered light (figure 7, the emitted light will pass through the openings which will not be filtered).

Regarding claim 8, Boroson discloses a multicolor OLED device (figure 7) having an array of pixels (not shown) which include different subpixels (55a-55d) that emit different color light (30a-30d) wherein each subpixel comprises: a light emitting layer (210) arranged to produce light in a predetermined emitting area, wherein the light produced by each subpixel is a different color (paragraph 112); a reflector (220) and a semi-transparent reflector (120a-120d) forming a microcavity structure (paragraph 32) for resonating the light produced by each subpixel is a different color; and a color filter element (301a-301c) disposed relative to a first portion (the portion where the filters are placed) of the predetermined emitting area so as to filter the light and transmit substantially unfiltered red, green or blue light through a second portion (the portion where the filters are not placed) of the predetermined emitting area.

Regarding claim 9, Boroson discloses the subpixels produce red, green, and blue light (paragraph 112).

Regarding claim 10, Boroson discloses the reflector and the semi-transparent reflector serve as electrodes for light emitting layer (paragraph 33).

Regarding claim 11, Boroson discloses the semi-transparent reflector is Ag or an Ag alloy (paragraph 31).

Regarding claim 12, Boroson discloses the device is top emitting (figure 5).

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Regarding claim 13, Boroson discloses the device is bottom emitting (figure 7).

Regarding claim 14, Boroson discloses the device further comprises active matrix circuitry (figure 7, 110) to drive the subpixels.

Regarding claim 15, Boroson discloses the color filter elements (figure 7, 301a-301c) include striped filtered portions (figure 7, into the page).

Regarding claim 16, Boroson discloses the color filter element (figure 7, 301a-301c) includes openings (two openings between 301a and 301b, and 301b and 301c) in the color filter element to provide the unfiltered light (figure 7, the emitted light will pass through the openings which will not be filtered).

Response to Arguments

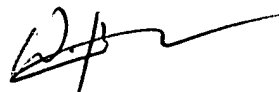
Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bumsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Bumsuk Won
Patent Examiner



JOSEPH WILLIAMS
PRIMARY EXAMINER